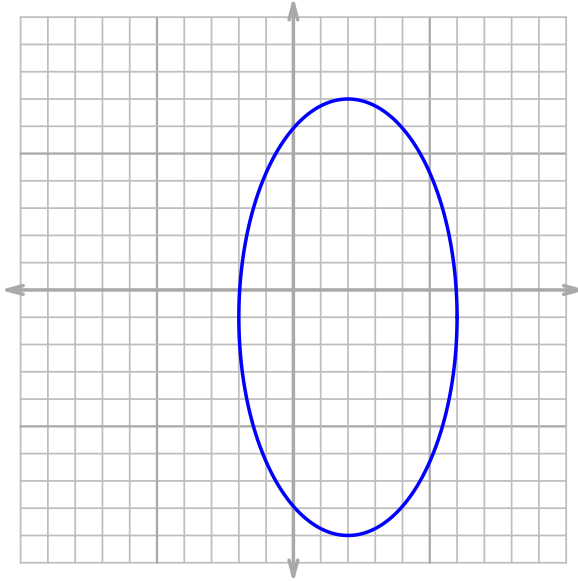


Question 1

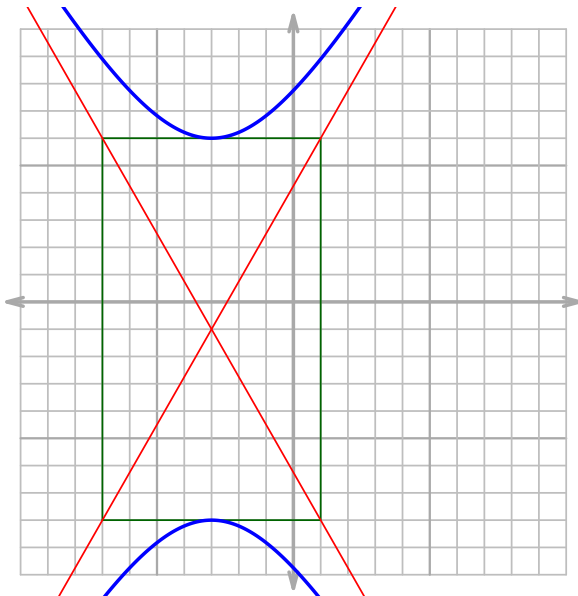
Please write the equation of the conic section graphed below. You can assume all vertices and co-vertices are on integer gridpoints.



$$\frac{(x-2)^2}{16} + \frac{(y+1)^2}{64} = 1$$

Question 2

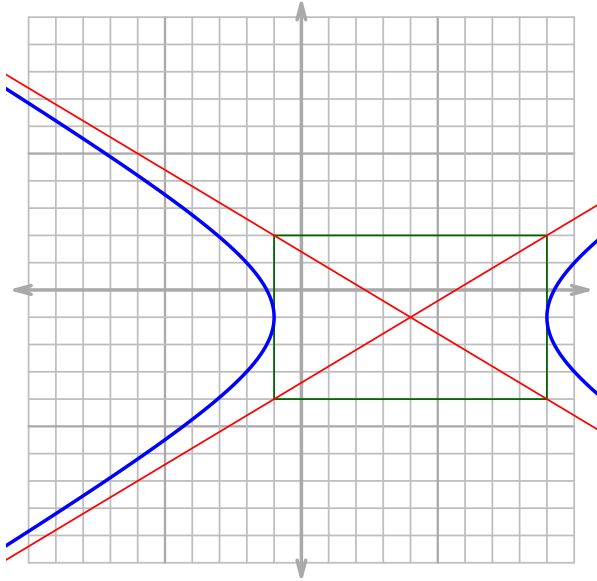
Please write the equation of the conic section graphed below. You can assume all vertices and co-vertices are on integer gridpoints.



$$-\frac{(x+3)^2}{16} + \frac{(y+1)^2}{49} = 1$$

Question 3

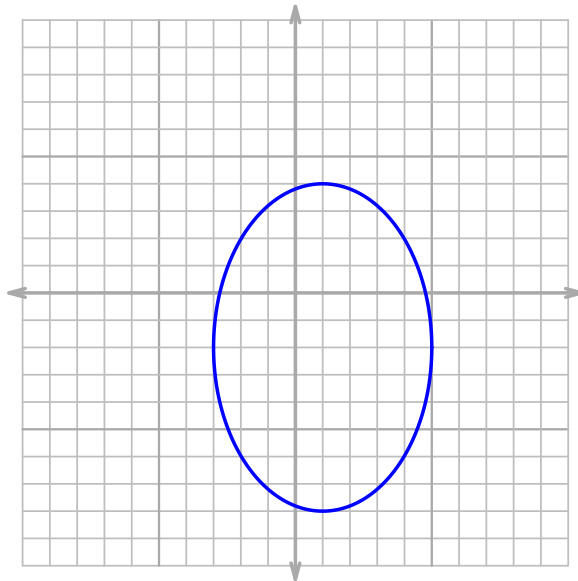
Graph the conic section represented by the equation. For a hyperbola, please include the central rectangle and the asymptotes.



$$\frac{(x-4)^2}{25} - \frac{(y+1)^2}{9} = 1$$

Question 4

Graph the conic section represented by the equation. For a hyperbola, please include the central rectangle and the asymptotes.



$$\frac{(x-1)^2}{16} + \frac{(y+2)^2}{36} = 1$$